

5/3/2018

Print

Purchasing Receipts



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	
P0039629	MES002-VC	1	1	Net 30	M17-4-H1025-R1.375	17-4 -H1025 Round Bar 1.375" : MATERIAL: 17-4 CONDITION H1025 receive ft				12	5/4/2018	12		S068118	Stock	5/3/2018	\$ 58.75 / ft	
		2			M1018B1.000X02.500	1010-1025 Steel Bar 1.000 X 2.500 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft						12		S068119	Stock	5/3/2018	\$ 17.75 / ft	
		3			M6061T6B1.750X10.000	6061T6 Bar 1.750 X 10.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4110 OR ASTM B211 OR ASTM B221 receive ft				6		6		S068120	Stock	5/3/2018	\$ 129.17 / ft	
		4			M17-4-H900-B0.750X1.250	17-4 SS H900 Bar 0.750" X 1.250" : MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST RUN ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI NOTE: receive ft				12		12		S068121	Stock	5/3/2018	\$ 82.50 / ft	
Total:										42			42					

Plex 5/3/2018 11:50 AM Dart.Dubois.Pascal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039629**

Supplier: MES002-VC
Metaux Solutions
2625 boul Jacques-Cartier Est
Longueuil
QC
J4N 1L7 Canada
Phone: 800 558 8858
Fax: 514 633 8044

PO No: PO039629

PO Date: 4/17/18

Due Date: 4/24/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
APR 18 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M17-4-H1025-R1.375		17-4 -H1025 Round Bar 1.375" : MATERIAL: 17-4 CONDITION H1025 receive ft	Firmed	4/24/18	12 ft	0 ft	12 ft	\$58.75/ft	\$705.00
2	M1018B1.000X02.500		1010-1025 Steel Bar 1.000 X 2.500 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft	Firmed	4/24/18	12 ft	0 ft	12 ft	\$17.75/ft	\$213.00
3	M6061T6B1.750X10.000		6061T6 Bar 1.750 X 10.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	4/24/18	6 ft	0 ft	6 ft	\$129.1666/ft	\$775.00

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	M17-4-H900-B0.750X1.250		17-4 SS H900 Bar 0.750" X 1.250" : MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST RUN ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI NOTE: PLEASE SHIP MATERIAL TO METCOR FOR HEAT TREAT TO H900 METCOR INC. 560 BOUL. ARTHUR SAUVE SAINT-EUSTACHE QC, J7R-5A8 PHONE 450-473-1884 FAX 450-491-5498 receive ft	Firmed	5/1/18	12 ft	0 ft 12'	12 ft	\$82.50/ft	\$990.00
Grand Total:										\$2,683.00

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

CA


Plex 4/17/18 12:05 PM dart.lavoie.chantal

Shipping Order

26/04/2018

METALUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7
Tel.: 450 641-3330

Order : 134519
Reference : 39629
Ship : PICK UP / PICK UP

Customer: 6323336

Ship To

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Deliver	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SR138174	17-4PH ROU 1.375 DIA. COND. 1025 1 x 12.67' HT:707n	12.67	<u>12.67</u>	<u>0</u>
CF1212	CNS FLA 1.000 X 2.500 1018 1 X 12' R/L HT:prd-12550702	12	<u>12</u>	<u>0</u>
AP134107278	6061-T6 PLT. 1.75 X 10 X 67 1 PCE HT:649053	1	<u>1</u>	<u>0</u>
SF34114174	17-4PH FLAT .75 X 1.250 COND H900 1 x 13.58' HT:273760	13.58	<u>13.58</u>	<u>0</u>

SHIP JOURNEY COLLECT

JP

Shipping :
Package No :

Ref. :

Merchandise Received:

Shipping Order

26/04/2018

METALUX SOLUTIONS INC
8025 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7
Tel.: 450 641-3330

Order : 134519
Reference : 39629
Ship : PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SR138174	17-4PH ROU 1.375 DIA. COND. 1025 1 x 12.67 HT:7070	12.67	12.67	0
DF1212	CRS FLA 1.000 X 2.500 1018 1 X 12' R/L HT:12550702	12	12	0
VP134107278	6081-T6 PLT 1.75 X 10 X 67 1 PCE HT:049063	1	1	0
CS4114174	17-4PH FLAT .75 X 1.250 COND. H000 1 x 13.58 HT:273760	13.58	13.58	0

SHIP JOURNEY COLLECT

JP

Pat Mail
1PCS 0502-18

Shipping : _____ Ref. : _____
Package No : _____
Receivable Received: _____

Customer Name
METAUX SOLUTIONS INC

Customer PO#
44225-F

Invoice No
96691

Shipper No
90547

Heat Number
1-2573



BRIGHT STEELS

MANUFACTURERS OF BRIGHT STEEL BARS
NORTON WORKS - MALTON - NORTH YORKSHIRE - ENGLAND - YO17 9BD

T: +44 (0) 1653 602122

F: +44 (0) 1653 695656

E: export@bright-steels.com

Certificate Of Analysis

Date : 19/12/2017

Number : 113698

VAT Registration No. 166 6255 35

Invoice To:

Deliver To:

UNLESS AGREED OTHERWISE THE MATERIAL DETAILED BELOW HAS BEEN INSPECTED AND TESTED ACCORDING TO PROCEDURES RELATIVE TO OUR BS EN ISO 9001 REGISTRATION TO COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND ORDER. CONFORMS TO EN 10204 2.2. ORIGINAL CERTIFICATES ARE HELD ON FILE.

ORDER LINE	DESCRIPTION AND ORDER DETAILS	CAST NO.	BATCH NO	DESPATCH WEIGHT	UOM	QUANTITY
------------	-------------------------------	----------	----------	-----------------	-----	----------

BRIGHT MILD FLAT TO ASTM A29-03 (A108-99) 1018
IN 11'6"-12'6" LENGTHS
TARIFF NO. 7215.50.11

1	3/4" X 1.3/4"		2172124		PRD-12623701		2172		LBS		985 KGS	
CAST	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Cu %	Sn %	Al %	
2172124	0.180	0.210	0.800	0.011	0.027	0.110	0.030	0.140	0.280	0.015	0.003	
	V %											
	0.003											

BRIGHT MILD FLAT TO ASTM A29-03 (A108-99) 1018
IN 142" MIN. LENGTHS
TARIFF NO. 7215.50.11

4*	1" X 2.1/2"	1-2573	PRD-12550701	2158	LBS	1815 KGS					
		1-2573	PRD-12550702	2064	LBS						
CAST	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Cu %	Sn %	Al %
1-2573	0.180	0.180	0.760	0.008	0.031	0.100	0.030	0.120	0.200	0.011	0.002
	V %	N %									
	0.005	0.0113									

BRIGHT MILD FLAT TO ASTM A29-03 (A108-99) 1018
IN 11'6"-12'6" LENGTHS
TARIFF NO. 7215.50.11

Signed :

Registered In England No 159061

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
24-APR-2018

44606-J
PART NUMBER/NUMÉRO DE PIÈCE
511723

Invoice Number
T378896

SOLD TO: METAUX SOLUTIONS INC. SHIP TO: METAUX SOLUTIONS (RIVE-SUD)
VENDU À: 2625 BOUL JACQUES CARTIER EST EXPÉDIÉ À: 2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7 LONGUEUIL QC J4N 1

Description: 17-4 HRAP BAR SOL ANN ASTM A564
3/4 X 1-1/4 FLAT X 12' R/L
HEAT: 273760 ITEM: 511723

Line Total: 44 LB

Specifications:

AMS 5643 V

ASTM A564 T630 13A
AMS H-6875 B

ASME SA564 T630 15
ASTM A370 17

AMS 2303 F
ASTM F899 12

CHEMICAL ANALYSIS

C	SI	MN	CR	MO	CU	NI	CO
0.037	0.40	0.45	15.08	0.20	3.41	4.61	0.065
P	S	N	TA	NBTA	CB		
0.024	0.001	0.039	0.0002	0.272	0.27		

RCPT: R382813

COUNTRY OF ORIGIN : FOREIGN

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS BHN
COND A					348
DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
DEV: H900 L	185.0	201.0	13.0	55.0	428

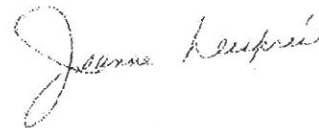
GRAIN SIZE : 5 -

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
24-APR-2018

44606-J
PART NUMBER/NUMÉRO DE PIÈCE
511723

Invoice Number
T378896

SOLD TO: METAUX SOLUTIONS INC.
VENDU À:

SHIP TO:
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 17-4 HRAP BAR SOL ANN ASTM A564
3/4 X 1-1/4 FLAT X 12' R/L
HEAT: 273760

ITEM: 511723

Line Total: 44 LB

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
MACRO: OK
MICRO1: OK

COMMENTS

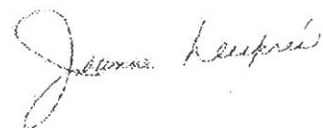
melted & mfg: italy
red ratio: 53.3:1
pressure equipment directive (97/23/ec) annex 1, s. 4.3 & 2014/68/eu
by tuev and lloyds
material solution annealed 1904 deg f for 1 hour, air cooled to below
90 deg f
material is dfars complaint
ferrite: 1.6%

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
24-APR-2018

44606-J
PART NUMBER/NUMÉRO DE PIÈCE

Invoice Number
S706384

SOLD TO: METAUX SOLUTIONS INC. SHIP TO: METAUX SOLUTIONS (RIVE-SUD)
VENDU À: 2625 BOUL JACQUES CARTIER EST EXPÉDIÉ À: 2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7 LONGUEUIL QC J4N 1

Description: 6061-T651 PLATE QQ A 250/11
1-3/4 S/C 10.000" X 67.000" RECTANGLE Line Total: 117.1985 LB
HEAT: 649053 ITEM: 561331

Specifications:
QQ A 250/11 AMS 4027 N 14 ASTM B209 14
ASME SB 209 SEC II 10 PART B AMS QQA 250/11 A 08
EN 10204 3.1

ALUMINIUM CHEMICAL ANALYSIS

DESCRIPTION:

	SI	FE	CU	MN	MG	CR	ZN	TI
MIN	0.4		0.15		0.8	0.04		
MAX	0.8	0.7	0.4	0.15	1.2	0.35	0.25	0.15

AL REMAINDER

RCPT: R354281

COUNTRY OF ORIGIN : RUSSIA

MECHANICAL PROPERTIES

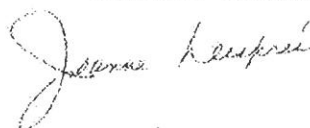
DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS
	40.8	45.4	10.5		
	40.8	45.4	13.0		

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
24-APR-2018

44606-J
PART NUMBER/NUMÉRO DE PIÈCE

Invoice Number
S706384

SOLD TO: METAUX SOLUTIONS INC.
VENDU À:

SHIP TO:
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 6061-T651 PLATE QQ A 250/11
1-3/4 S/C 10.000" X 67.000" RECTANGLE Line Total: 117.1985 LB
HEAT: 649053 ITEM: 561331

COMMENTS

chemistry:

si 0.63/0.64

fe 0.32/0.33

cu 0.18

mn 0.09

mg 0.9/1.0

cr 0.06

zn 0.13

ti 0.07/0.09

other elements each 0.05

others elements total 0.15

al remainder

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
25-APR-2018

44606-J
PART NUMBER/NUMÉRO DE PIÈCE

Invoice Number
T378897

Ship# T568335

SOLD TO: METAUX SOLUTIONS INC.
VENDU À:

SHIP TO:
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 17-4 SOL ANN CF BAR
1-3/8 RD X 12 R/L
HEAT: 707N

ASTM A564
Line Total: 64 LB

ITEM: 510529

Specifications:
AMS 5643 U
ASTM F899 12

ASTM A564 T630 13
ASTM A484 16

ASME SA564 T630 07
AMS 2303 F

CHEMICAL ANALYSIS

C	CB	CO	CR	CU	MN	MO	N
0.02	0.199	0.02	15.58	3.36	0.7800	0.024	0.029
NI	P	S	SI	TA	TI	CBTA	
4.32	0.0180	0.0225	0.68	0.0125	0.003	0.2115	

RCPT: R428752

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS BHN
COND A					341
DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS RC
DEV: H900 L	177.09	198.6	15.23	48.18	43

GRAIN SIZE : 8 -

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JOANNE DESPRES

Joanne Despres

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
25-APR-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T378897

44606-J
PART NUMBER/NUMÉRO DE PIÈCE

Ship# T568335

SOLD TO: METAUX SOLUTIONS INC.
VENDU À:

SHIP TO:
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 17-4 SOL ANN CF BAR
1-3/8 RD X 12' R/L
HEAT: 707N

ITEM: 510529

ASTM A564
Line Total: 64 LB

MACRO: OK
MICRO1: OK
AMS NO :2303
SEVERITY :0.22
FREQUENCY:0.39

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JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

METCOR INC.

560 BOUL. ARTHUR-SAUVE, ST-EUSTACHE, QC, J7R 5A3

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450-491-6454

Certificat de Conformité Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
327210	1

CLIENT / customer 780

METAL SOLUTIONS

2625 BOUL. JACQUES-CARTIER EST

LONGUEUIL

QC J4B 8G6

LIVRÉ À / shipped to:

METAL SOLUTIONS

2625 BOUL. JACQUES-CARTIER EST

LONGUEUIL

QC J4B 8G6

COMMANDE DU CLIENT customer po	CLASSIFICATION PIECE part classification	MATÉRIEL material	MAÎTRE D'OEUVRE prime contractor	PROGRAM
44809	N/A	17-4PH		
SPECIFICATIONS DU PROCÉDÉ processing specifications				
AGE HARDEN				
CONDITION H 1025				

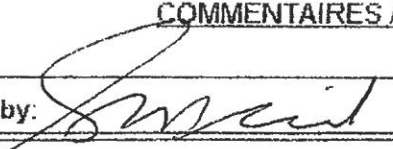
EXIGENCE / requirement	SPECIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	34 - 42 HRC	1	39 - 40 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
1	83	BAR (1) BAR 1.375" X 12" 1 NIL

4/5/18

COMMENTAIRES / comments

APPROUVÉ par / Approved by:



DATE: 2018-04-30

APPROUVÉ

APPROUVÉ

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-44900-BC.750X1.250 PO / BATCH NO.: 039629/5068121
 DATE: MAY 03 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 121
 QUANTITY INSPECTED: 121
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	AMS 3643
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Sheet # 273760
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-MAY 03 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

- PURCHASE MATERIAL:** 17-4 PH / TYPE 630 / S17400 SS BAR
GRAIN MUST BE ALONG LENGTH OF BAR
MINIMUM YIELD STRENGTH PER TABLE
MINIMUM ULTIMATE STRENGTH PER TABLE
- SPECIFICATION:** AMS 5604 OR AMS 5643 OR ASTM A693 OR ASTM 564
- PART NUMBER:** M17-4- HHHHHH- T.TTT X| WW.WWWW | COND | THICK | WIDTH | WHERE: HHHHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
T.TTT SPECIFIES THE THICKNESS
WW.WWWW SPECIFIES THE WIDTH

MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS

MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE

CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

EXAMPLES:

PART 0.250" X 4.000" BAR MINUTS = 150 KSI, MIN YTS = 100 KSI
1.000" X 2.500" BAR H900 CONDITION
0.500" X 3.250" BAR H1025 CONDITION
0.750" X 2.500" BAR A CONDITION

PART NUMBER
M17-4-B0.250X4.000
M17-4-H900-B1.000X2.500
M17-4-H1025-B0.500X3.250
M17-4-CONDA-B0.750X2.500

RELEASED
2017-10-31
2017-12-8

APPROVED

B	ADD MATERIAL CONDITION AND REFORMAT DRAWING (CIR17-107)	NO	17.09.14
A	NEW ISSUE	DS	02.04.18
REV.	DESCRIPTION	BY	DATE
DESIGN	NO		
DRAWN	NO		
CHECKED	CP		
MFG. APPR.	DD		
APPROVED	WM		
DE APPR.	CP		
DATE	17.09.14		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M17-4-B			
REV. B			
SHEET 1 OF 1			
TITLE 17-4 SS BAR			
SCALE NTS			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B1.30x10.000
 DATE: MAY 03 2018

PO / BATCH NO.: 039629/5068120

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 6
 QUANTITY INSPECTED: 6
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.750
 THICKNESS RECEIVED: 1.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	QQ-A-250/11
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	Heat # 649053
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u>		SIGNED OFF BY: _____	
DATE: <u>9-MAY 03 2018</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS-4025 OR 4027
OR ASTM B209

PART NUMBER: M6061T6S | XXX | X | W.WWW |
THK | WIDTH |

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)
EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500

PREFERRED SIZE: .XXX BY 4FT BY 8FT FOR SHEET

RELEASED

2018 MAR 13
EJ 18-695

APPROVED

C	ADD PLATE AND T651 SPEC	ML	17.12.13
B	REFORMAT DWG, ADD B209 SPEC (ZN DB-1), REF PAR 08-020A	CP	08.07.13
A	NEW ISSUE	RF	01.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	ML		
CHECKED	NO		
MFG. APPR.	JFS		
APPROVED	HS		
DE APPR.	CP		
DATE	17.12.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6S			
TITLE 6061-T6 SHEET/PLATE SPEC			
SHEET 1 OF 1			
SCALE NTS			
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DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018B1.000X02.500
 DATE: MAY 03 2018

PO / BATCH NO.: 039629/5068119

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	N/A for deribbling use only PD
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	Heat# 12550702
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11 / P.D.</u> DATE: <u>MAY 03 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DART



DESIGN 	DRAWN BY 	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED 	APPROVED 	DRAWING NO. M1010-B	REV. A SHEET 1 OF 1
DATE 01.12.06		TITLE AISI 1010-1025 BAR	SCALE NTS
A	01.12.06	NEW ISSUE	

PURCHASE MATERIAL: AISI 1010-1025 OR ASTM A36 / A366 / A569 / A570
OR CSA G40-21, 38W / 44W / 50W / 60W / 70W

PART NUMBER: M1010-B | T.TTT | x | WW.WWW | WHERE T.TTT = THICKNESS (IN INCHES)
THICK WIDTH WW.WWW = WIDTH (IN INCHES)
EG. 0.75" x 2.50" BAR = M1010-B0.750 x 02.500

RELEASED
01.12.07

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-H1025-R1.375
 DATE: MAY 03 2018

PO / BATCH NO.: 039629/5068118

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 121
 QUANTITY INSPECTED: 121
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.375
 THICKNESS RECEIVED: 1.375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	AMS 5643
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # 707N
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 MAY 03 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

NTS